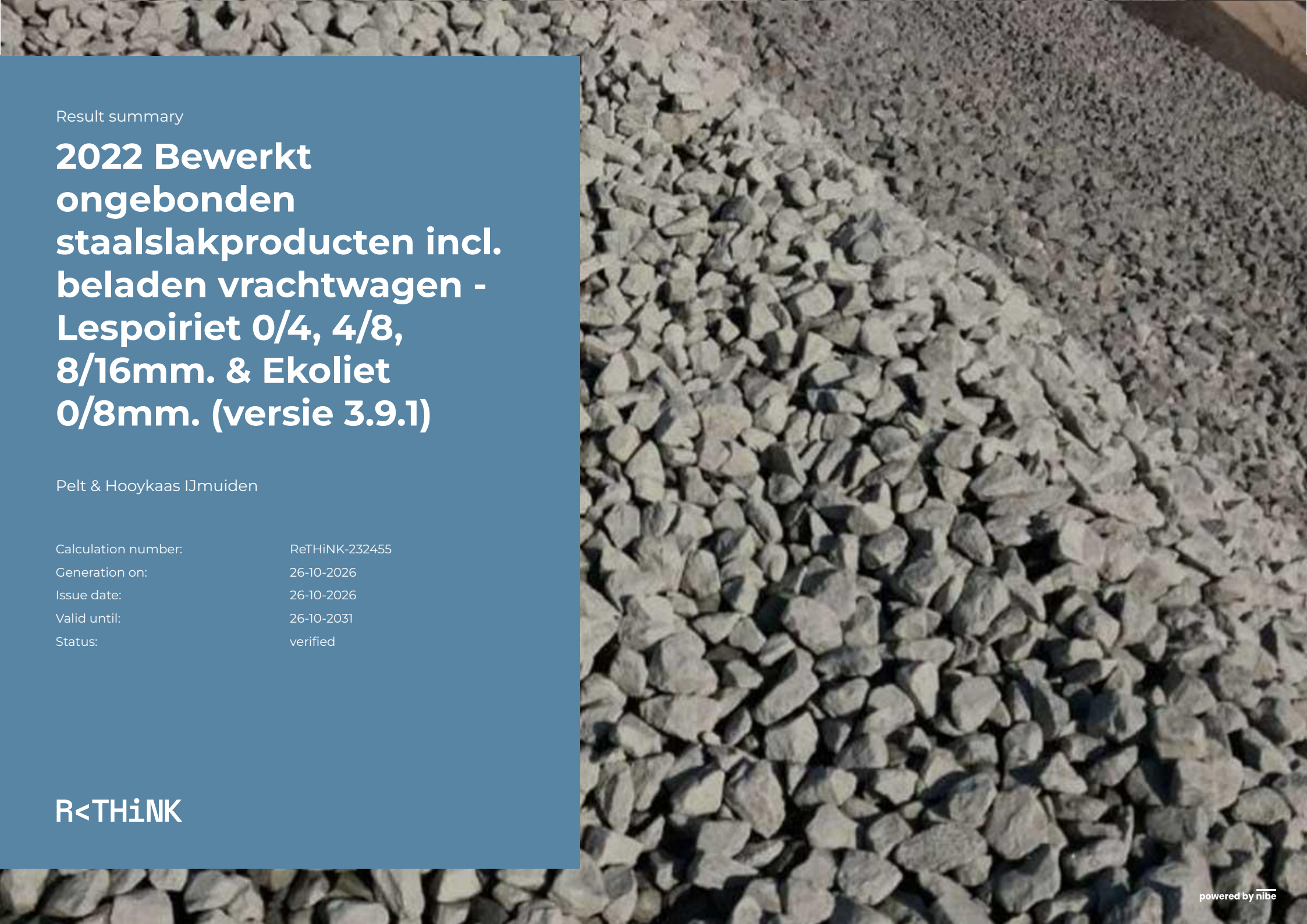
Result summary

2022 Bewerkt ongebonden staalslakproducten incl. beladen vrachtwagen - Lespoiriet 0/4, 4/8, 8/16mm. & Ekoliet 0/8mm. (versie 3.9.1)

Pelt & Hooykaas IJmuiden

Calculation number:	ReTHiNK-232455
Generation on:	26-10-2026
Issue date:	26-10-2026
Valid until:	26-10-2031
Status:	verified

R<THiNK



powered by nibe

1 General information

1.1 PRODUCT

2022 Bewerkt ongebonden staalslakproducten incl. beladen vrachtwagen - Lespoiriet 0/4, 4/8, 8/16mm. & Ekoliet 0/8mm. (versie 3.9.1)

1.2 VALIDITY

Issue date: 26-10-2026

Valid until: 26-10-2031

1.3 OWNER OF THE DECLARATION

Declaration owner: Pelt & Hooykaas IJmuiden

Address: Wenckebachstraat 1, 1951 JZ Velzen-Noord

E-mail: info@pelt-hooykaas.nl

Website: www.pelt-hooykaas.nl

Production location: Pelt en Hooykaas IJmuiden

Address production location: Wenckebachstraat 1, 1951 JZ Velsen-Noord

1.4 VERIFICATION OF THE DECLARATION

The independent verification is in accordance with the ISO 14025:2011. The LCA is in compliance with ISO 14040:2006 and ISO 14044:2006. The EN 15804+A2:2019 serves as the core PCR.

☐ Internal ☒ External



Tim Mol, EcoReview NL B.V.

1.5 PRODUCT CATEGORY RULES

EN 15804:2012+A2:2019/AC:2021

1.6 DECLARED UNIT

Lespoiriet 0-16mm. & Ekoliet 0/8mm.

1 ton (1000kg.) Toeslagmateriaal voor Beton en Asfalt fasen A1-A3

Reference unit: ton

1.7 CONVERSION FACTORS

Description	Value	Unit
Reference unit	1	ton
Weight per reference unit	1000.000	kg
Conversion factor to 1 kg	0.001000	ton

1 General information

1.8 SCOPE OF DECLARATION AND SYSTEM BOUNDARIES

This is a Cradle-to-gate EPD. The life cycle stages included are as shown below:

(X = module included, ND = module not declared)

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

The modules of the EN 15804 contain the following:

Module A1 = Raw material supply	Module B5 = Refurbishment
Module A2 = Transport	Module B6 = Operational energy use
Module A3 = Manufacturing	Module B7 = Operational water use
Module A4 = Transport	Module C1 = Deconstruction / Demolition
Module A5 = Construction - Installation process	Module C2 = Transport
Module B1 = Use	Module C3 = Waste Processing
Module B2 = Maintenance	Module C4 = Disposal
Module B3 = Repair	Module D = Benefits and loads beyond the product system boundaries
Module B4 = Replacement	

1.9 COMPARABILITY

In principle, a comparison or assessment of the environmental impacts of different products is only possible if they have been prepared in accordance with EN 15804+A2:2019. For the evaluation of the comparability, the following aspects have to be considered in particular: PCR used, functional or declared unit, geographical reference, the definition of the system boundary, declared modules, data selection (primary or secondary data, background database, data quality), scenarios used for use and disposal phases, and the life cycle inventory (data collection, calculation methods, allocations, validity period). PCRs and general program instructions of different EPD program operators may differ. Comparability needs to be evaluated. For further guidance, see EN 15804+A2:2019 and ISO 14025.

2 Product

2.1 PRODUCT DESCRIPTION

Staalslakken zijn een co-product van de staalproductie bij TATA Steel. Na ont-ijzering worden de staalslakken geleverd aan Pelt&Hooykaas voor verdere bewerking tot staalslakproducten.

Het betreft hier de productie van de volgende staalslakproducten:

- Bewerkte Ongebonden Staalslakproducten
- Onbewerkte Ongebonden Staalslakproducten
- LD-Staalslakmengsels
- Zandvervanging (onbewerkt)
- Zandvervanging (bewerkt).

Bewerkt ongebonden Staalslakproducten bestaan uit:

- BGS Straatlaag 0/8
- Waterbouwslak 45/180
- BGS Additief
- Lespoiriet 0/4
- Lespoiriet 4/8
- Lespoiriet 8/11
- Lespoiriet 8/16
- Ekoliet 0/4
- Ekoliet 0/8
- Ekoliet 4/8
- Ekoliet 8/11

Deze specifieke LCA betreft de productie van Lespoiriet 0/4, 4/8, 8/16mm. & Ekoliet 0/8mm.

De producten zijn gedefinieerd in Prestatieverklaring (DoP): LD8E-210816 / LD4L-210819 / LD48L-210820

Lespoiriet 0/4,4/8,8/16mm. wordt toegepast als toeslagmateriaal voor bitumineuze mengsels (asfalt) en oppervlakbehandeling voor wegen, vliegvelden en andere verkeersgebieden.

Ekoliet 0/8mm. is een all-in toeslagmateriaal voor beton voor speciaal gebruik (uitsluitend voor gebruik in niet-constructief beton.)

De product-/ functionele eenheid bedraagt 1 ton. Eventuele omrekening naar materiaal per kuub of per m2 kan worden uitgevoerd op basis van de op dat moment relevante dichtheden.

Het product is reactief met CO2 (cabonatatie). Er wordt CO2 opgenomen door de staalslak tijdens opslag van het product. De carbonatatie is vastgesteld door middel van onderzoek door TAUW B.V. (rapport R001-1273876JJS-V01). De carbonatatie in A-3 is bepaald aan de hand van de gemiddelde tijdsduur voor opslag van het materiaal te Pelt & Hooykaas.

2.2 APPLICATION (INTENDED USE OF THE PRODUCT)

Lespoiriet 0/4,4/8,8/16mm. wordt toegepast als toeslagmateriaal voor bitumineuze mengsels (asfalt) en oppervlakbehandeling voor wegen, vliegvelden en andere verkeersgebieden.

Ekoliet 0/8mm. is een all-in toeslagmateriaal voor beton voor speciaal gebruik (uitsluitend voor gebruik in niet-constructief beton.)

2.3 DESCRIPTION OF THE PRODUCTION PROCESS

Staalslak is afkomstig van het proces om ruwijzer te bewerken tot staal. Na ontijzeren van de slak worden deze te Pelt&Hooykaas gesorteerd en/of bewerkt voor verder gebruik. De slak wordt bij P & H verder bewerkt door middel van zeven en eventueel breken. De diverse soorten- en sorteringen aan staalslak worden gescheiden opgeslagen.

3 Results

3.1 ENVIRONMENTAL IMPACT INDICATORS PER TON

CORE ENVIRONMENTAL IMPACT INDICATORS EN 15804+A2

Abbr.	Unit	A1	A2	A3	A1-A3	Total
GWP-total	kg CO_2 eq.	0.00E+0	5.01E-1	-1.50E+1	-1.45E+1	-1.45E+1
GWP-f	kg CO_2 eq.	0.00E+0	5.01E-1	-1.50E+1	-1.45E+1	-1.45E+1
GWP-b	kg CO_2 eq.	0.00E+0	1.68E-4	2.27E-3	2.44E-3	2.44E-3
GWP-luluc	kg CO_2 eq.	0.00E+0	2.44E-4	1.98E-2	2.01E-2	2.01E-2
ODP	kg CFC 11 eq.	0.00E+0	1.14E-8	2.43E-8	3.56E-8	3.56E-8
AP	mol H+ eq.	0.00E+0	1.24E-3	9.19E-3	1.04E-2	1.04E-2
EP-fw	kg P eq.	0.00E+0	4.20E-6	4.74E-5	5.15E-5	5.15E-5
EP-m	kg N eq.	0.00E+0	3.31E-4	2.53E-3	2.86E-3	2.86E-3
EP-T	mol N eq.	0.00E+0	3.47E-3	3.15E-2	3.50E-2	3.50E-2
POCP	kg NMVOC eq.	0.00E+0	2.02E-3	7.87E-3	9.89E-3	9.89E-3
ADP-mm	kg Sb-eq.	0.00E+0	1.40E-6	2.13E-5	2.27E-5	2.27E-5
ADP-f	MJ	0.00E+0	7.60E+0	1.27E+1	2.03E+1	2.03E+1
WDP	m3 world eq.	0.00E+0	4.04E-2	4.46E-1	4.86E-1	4.86E-1

GWP-total=Global Warming Potential total (GWP-total) | **GWP-f**=Global Warming Potential fossil fuels (GWP-fossil) | **GWP-b**=Global Warming Potential biogenic (GWP-biogenic) | **GWP-luluc**=Global Warming Potential land use and land use change (GWP-luluc) | **ODP**=Depletion potential of the stratosperic ozon layer (ODP) | **AP**=Acidification potential, Accumulated Exceedance (AP) | **EP-fw**=Eutrophication potential, fraction of nutrients reaching freshwater end compartment (EP-freshwater) | **EP-m**=Eutrophication potential, fraction of nutrients reaching marine end compartment (EP-marine) | **EP-T**=Eutrophication potential, Accumulated Exceedance (EP-terrestrial) | **POCP**=Formation potential of tropospheric ozone (POCP) | **ADP-mm**=Abiotic depletion potential for non fossil resources (ADP mm) | **ADP-f**=Abiotic depletion for fossil resources potential (ADP fossil) | **WDP**=Water (user) deprication potential, deprivation-weighted water consumption (WDP)

ADDITIONAL ENVIRONMENTAL IMPACT INDICATORS EN 15804+A2

Abbr.	Unit	A1	A2	A3	A1-A3	Total
PM	disease incidence	0.00E+0	4.94E-8	8.39E-8	1.33E-7	1.33E-7
IR	kBq U235 eq.	0.00E+0	3.66E-3	1.96E-2	2.33E-2	2.33E-2

PM=Potential incidence of disease due to PM emissions (PM) | **IR**=Potential Human exposure efficiency relative to U235 (IRP) | **ETP-fw**=Potential Comparative Toxic Unit for ecosystems (ETP-fw) | **HTP-c**=Potential Comparative Toxic Unit for humans (HTP-c) | **HTP-nc**=Potential Comparative Toxic Unit for humans (HTP-nc) | **SQP**=Potential soil quality index (SQP)

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	Total
ETP-fw	CTUe	0.00E+0	3.66E+0	1.12E+1	1.49E+1	1.49E+1
HTP-c	CTUh	0.00E+0	2.23E-10	4.59E-9	4.81E-9	4.81E-9
HTP-nc	CTUh	0.00E+0	5.43E-9	2.87E-8	3.42E-8	3.42E-8
SQP	Pt	0.00E+0	7.71E+0	3.64E+1	4.41E+1	4.41E+1

PM=Potential incidence of disease due to PM emissions (PM) | **IR**=Potential Human exposure efficiency relative to U235 (IRP) | **ETP-fw**=Potential Comparative Toxic Unit for ecosystems (ETP-fw) | **HTP-c**=Potential Comparative Toxic Unit for humans (HTP-c) | **HTP-nc**=Potential Comparative Toxic Unit for humans (HTP-nc) | **SQP**=Potential soil quality index (SQP)

CLASSIFICATION OF DISCLAIMERS TO THE DECLARATION OF CORE AND ADDITIONAL ENVIRONMENTAL IMPACT INDICATORS

ILCD classification	Indicator	Disclaimer
ILCD type / level 1	Global warming potential (GWP)	None
	Depletion potential of the stratospheric ozone layer (ODP)	None
	Potential incidence of disease due to PM emissions (PM)	None
ILCD type / level 2	Acidification potential, Accumulated Exceedance (AP)	None
	Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-freshwater)	None
	Eutrophication potential, Fraction of nutrients reaching marine end compartment (EP-marine)	None
	Eutrophication potential, Accumulated Exceedance (EP-terrestrial)	None
	Formation potential of tropospheric ozone (POCP)	None
	Potential Human exposure efficiency relative to U235 (IRP)	1
ILCD type / level 3	Abiotic depletion potential for non-fossil resources (ADP-minerals&metals)	2
	Abiotic depletion potential for fossil resources (ADP-fossil)	2
	Water (user) deprivation potential, deprivation-weighted water consumption (WDP)	2
	Potential Comparative Toxic Unit for ecosystems (ETP-fw)	2
	Potential Comparative Toxic Unit for humans (HTP-c)	2
	Potential Comparative Toxic Unit for humans (HTP-nc)	2
	Potential Soil quality index (SQP)	2

Disclaimer 1 – This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

3 Results

ILCD classification	Indicator	Disclaimer

Disclaimer 2 – The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

3.2 INDICATORS DESCRIBING RESOURCE USE AND ENVIRONMENTAL INFORMATION BASED ON LIFE CYCLE INVENTORY (LCI)

PARAMETERS DESCRIBING RESOURCE USE

Abbr.	Unit	A1	A2	A3	A1-A3	Total
PERE	MJ	0.00E+0	1.11E-1	1.61E+0	1.72E+0	1.72E+0
PERM	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PERT	MJ	0.00E+0	1.11E-1	1.61E+0	1.72E+0	1.72E+0
PENRE	MJ	0.00E+0	7.60E+0	1.27E+1	2.03E+1	2.03E+1
PENRM	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PENRT	MJ	0.00E+0	7.60E+0	1.27E+1	2.03E+1	2.03E+1
SM	Kg	1.00E+3	0.00E+0	1.00E+1	1.01E+3	1.01E+3
RSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
NRSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	m^3	0.00E+0	1.29E-3	1.45E-2	1.57E-2	1.57E-2

PERE=Use of renewable primary energy excluding renewable primary energy resources used as raw materials | **PERM**=Use of renewable primary energy resources used as raw materials | **PERT**=Total use of renewable primary energy resources | **PENRE**=Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials | **PENRM**=Use of non-renewable primary energy resources used as raw materials | **PENRT**=Total use of non-renewable primary energy resources | **SM**=Use of secondary material | **RSF**=Use of renewable secondary fuels | **NRSF**=Use of non-renewable secondary fuels | **FW**=Net use of fresh water

OTHER ENVIRONMENTAL INFORMATION DESCRIBING WASTE CATEGORIES

Abbr.	Unit	A1	A2	A3	A1-A3	Total
HWD	Kg	0.00E+0	4.72E-5	8.03E-5	1.28E-4	1.28E-4
NHWD	Kg	0.00E+0	6.66E-1	5.32E-1	1.20E+0	1.20E+0

HWD=Hazardous waste disposed | **NHWD**=Non-hazardous waste disposed | **RWD**=Radioactive waste disposed

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	Total
RWD	Kg	0.00E+0	2.32E-6	1.48E-5	1.71E-5	1.71E-5

HWD=Hazardous waste disposed | **NHWD**=Non-hazardous waste disposed | **RWD**=Radioactive waste disposed

ENVIRONMENTAL INFORMATION DESCRIBING OUTPUT FLOWS

Abbr.	Unit	A1	A2	A3	A1-A3	Total
CRU	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MFR	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MER	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EET	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EEE	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0

CRU=Components for re-use | **MFR**=Materials for recycling | **MER**=Materials for energy recovery | **EET**=Exported Energy, Thermic | **EEE**=Exported Energy, Electric

3 Results

3.3 INFORMATION ON BIOGENIC CARBON CONTENT PER TON

BIOGENIC CARBON CONTENT

The following Information describes the biogenic carbon content in (the main parts of) the product at the factory gate per ton:

Biogenic carbon content	Amount	Unit
Biogenic carbon content in the product	0	kg C
Biogenic carbon content in accompanying packaging	0	kg C

3 Results

3.4 ENVIRONMENTAL COST INDICATOR NL PER TON

Using the environmental cost indicator (ECI) method, which is presented in the NMD Determination Method (2025), the results are aggregated to the single-point score. The ECI is a relevant valuation method, especially in the Dutch construction sector. In the Netherlands, it is a prerequisite for public tenders. The aim of the indicator is to show the shadow price for environmental impacts of a product or project. The application of single-point scores is an additional assessment tool for eco-balance results. However, it must be pointed out that weightings are always based on a value maintenance and not on a scientific basis (EN 14040). The ECI results are shown in the following table.

Module EN15804	ECI NL 2024	Share in total (%)
A1 Raw Materials Supply	€ 0.00	0,0 %
A2 Transport	€ 0.10	-6,2 %
A3 Manufacturing	€ -1.64	106,2 %
ECI NL 2024 per functional unit	**€ -1.54**	

4 Contact information

Publisher	Operator	Owner of declaration
Pelt & Hooykaas IJmuiden Wenckebachstraat 1 1951 JZ Velzen-Noord, NL	**Pelt & Hooykaas IJmuiden** Wenckebachstraat 1 1951 JZ Velzen-Noord, NL	**Pelt & Hooykaas IJmuiden** Wenckebachstraat 1 1951 JZ Velzen-Noord, NL
E-mail: info@pelt-hooykaas.nl **Website:** www.pelt-hooykaas.nl	**E-mail:** info@pelt-hooykaas.nl **Website:** www.pelt-hooykaas.nl	**E-mail:** info@pelt-hooykaas.nl **Website:** www.pelt-hooykaas.nl